

Claims

What is claimed is:

1. A drawing device for applying drawing liquid containing a drawing material dissolved or dispersed in a solvent onto a substrate comprising:

a liquid drop emitter having a liquid drop ejection head selectively ejecting the drawing liquid onto the substrate;

a substrate stage having the substrate mounted thereon;

moving means for relatively moving the liquid drop ejection head or the substrate stage;

control means for controlling at least one of the liquid drop ejection head and the substrate stage; and

solvent outflow prevention means for preventing the solvent from flowing out, the solvent outflow prevention means disposed on at least one of the liquid drop ejection head and the substrate stage.

2. The drawing device according to Claim 1, wherein a vapor of the solvent is lighter than air and the solvent outflow prevention means is a wall extending around the liquid drop ejection head at the droplet ejection side.

3. The drawing device according to Claim 2, wherein a gap between a bottom edge of the wall and the substrate is greater than or equal to 0.05 mm.

4. The drawing device according to Claim 3, wherein a height of the wall is in a range from 0.1 to 0.4 mm.

5. The drawing device according to Claim 2, wherein the wall is inclined.

6. The drawing device according to Claim 1, further comprising a solvent reservoir disposed on a part of the stage to evaporate a solvent.

7. The drawing device according to Claim 1, wherein a vapor of the solvent is heavier than air and the solvent outflow prevention means is a wall extending around the substrate stage.

8. The drawing device according to Claim 7, wherein a height of the wall extending around the substrate stage is greater than or equal to 0.5 mm.

9. The drawing device according to Claim 7, further comprising a solvent supplying means for supplying the solvent to the surface of the substrate stage.

10. An electro-optical unit, wherein the electro-optical unit is manufactured by using the drawing device according to Claim 1.

11. An electronic apparatus comprising an electro-optical unit, wherein the electro-optical unit is manufactured by using the drawing device according to Claim 1.

12. A drawing device for applying drawing liquid containing a drawing

material dissolved or dispersed in a solvent onto a substrate comprising:

a liquid drop emitter having a liquid drop ejection head selectively ejecting the drawing liquid onto the substrate;

a substrate stage having the substrate mounted thereon; and

a wall projecting from at least one of the liquid drop ejection head and the substrate stage, the wall cooperating with the at least one of the liquid drop ejection head and the substrate stage to form a solvent vapor trap selectively retaining a solvent vapor.

13. The drawing device of claim 12 wherein said wall further comprises a continuous member.

14. The drawing device of claim 12 wherein said wall defines an interior region of the at least one of the liquid drop ejection head and the substrate stage, and projects at an acute angle relative to the interior region.